

### Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (amended) A method comprising:

modifying an original header associated with an original data packet wherein key information is added;

encrypting original data associated with the original data packet in response to the key information; and

forming an encrypted data packet including the modified header and the encrypted data,

wherein the modified header ~~encrypted data packet~~ is a same size as the original header ~~data packet~~.

2. (amended) The method according to claim 1 further comprising receiving a unique key identifier associated with the encrypted data packet ~~session identifier~~.

3. (amended) The method according to claim 2 wherein the modifying further comprises modifying the original header in response to the unique key identifier ~~session identifier~~.

4. (original) The method according to claim 1 wherein the modifying further comprises replacing the fragmentation identification and fragment offset of the original header with a mixing key and an offset.

5. (original) The method according to claim 1 wherein the original data packet and the encrypted data packet utilize Internet Protocol version 4.

6. (amended) A system comprising:

means for modifying an original header associated with an original data packet wherein key information is added;

means for encrypting original data associated with the original data packet in response to the key information; and

means for forming an encrypted data packet including the modified header and the encrypted data,

wherein the modified header ~~encrypted data packet~~ is a same size as the original header ~~data packet~~.

7. (Canceled)

8. (Canceled)

9. (Canceled)